## **List of Current Claims:**

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 13 (Cancelled).

14. (New) An apparatus for determining and/or monitoring at least one physical or chemical, process variable of a medium, having:

at least one oscillatable unit which produces, and/or receives, mechanical oscillations;

at least one tuning unit whose stiffness is variable and which is embodied in such a manner and connected in such a manner with said oscillatable unit, or is a component of said oscillatable unit in such a manner, that at least the resonance frequency of said oscillatable unit is changeable via said at least one tuning unit.

15. (New) The apparatus as claimed in claim 14, wherein:

said tuning unit comprises a piezoelectric material, which is connected with electrodes and whose stiffness is changeable at least by an electric current between the electrodes.

- 16. (New) The apparatus as claimed in claim 14, wherein: said tuning unit comprises a magnetostrictive material whose stiffness is changeable at least by an applied magnetic field.
  - 17. (New) The apparatus as claimed in claim 14, further having: a control unit which controls said tuning unit electrically.

18. (New) The apparatus as claimed in claim 17, wherein:

said control unit is embodied in such a manner that it tunes the resonance frequency of said oscillatable unit as a function of the oscillation amplitude and/or oscillation frequency of the mechanical oscillations produced and/or received by said oscillatable unit.

19. (New) The apparatus as claimed in claims 14, wherein:

at least one inner oscillatory rod and an outer oscillatory rod are provided in said oscillatable unit;

said outer oscillatory rod surrounds said inner oscillatory rod coaxially; said outer oscillatory rod and said inner oscillatory rod are coupled together; and

at least one tuning unit is coupled at least with one of said oscillatory rods.

- 20. (New) The apparatus as claimed in claim 19, wherein: said tuning unit is connected at least with said inner oscillatory rod.
- 21. (New) The apparatus as claimed in claim 14, wherein: at least one sending/receiving piezo is provided in said oscillatable unit; said tuning unit is a part of said oscillatable unit; and the resonance frequency of said oscillatable unit lies in the ultrasonic range.
  - 22. (New) The apparatus as claimed in claim 14, wherein:

at least one front-side mass and one rear-side mass are provided in said oscillatable unit;

at least one sending/receiving piezo is provided between the two masses; at least one tuning unit is part of one of the two masses; and the resonance frequency of said oscillatable unit lies in the ultrasonic range.

- 23. (New) The apparatus as claimed in claim 21, wherein: at least one matching layer is provided in said oscillatable unit for coupling to the medium.
- 24. (New) The apparatus as claimed in claim 22, wherein: at least one bolt is provided in said oscillatable unit for producing a prestress.
- 25. (New) The apparatus as claimed in claim 14, wherein: said oscillatable unit includes at least one measuring tube of a measurement pickup of vibration-type inserted into the course of a pipeline, especially a Coriolis mass flow or a Coriolis mass flow/density meter.
- 26. (New) A method for changing the resonance frequency of an apparatus for determining and/or monitoring at least one physical or chemical, process variable of a medium, comprising the steps of:

providing at least one oscillatable unit, which produces and/or receives mechanical oscillations;

connecting a tuning unit, with the oscillatable unit or is a part of the oscillatable unit; and

changing the stiffness of the at least one tuning unit.